

**Work Order ID 160541**

Monday, May 01, 2017 11:52:43 AM

**\*160541\***

Page 1

Item ID: D4007-3

Accept

**\*N900040100\***

Setup Start

**\*NS1\***

Revision ID:

Stop

**\*NS2\***

Item Name: Support

Start Date: 5/1/2017 Start Qty: 8.00

**\*8\***

Cust Item ID:

Required Date: 5/30/2017 Req'd Qty: 8.00

**\*8\***

Customer:

Reference:

Approvals:

Process Plan:

DAS  
13  
9-89

Date:

MAY 03 2017

Tooling:

Date:

Run Start

**\*NR1\***

QC:

Date:

SPC (Y/N):

Date:

Stop

**\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D4007

A

100

0.00

**\*100\***

Purchasing

Memo

0.00

Purchasing

Issue P/O: 36256  
Purchase part as per Dwg D4007  
Possible Supplier: GFI  
Material release note required

8

MAY 09 2017

DAS  
13  
9-89

110

Receive &amp; Inspect for Damage &amp; Mat'l Certs

0.00

**\*110\***

Packaging

Memo

0.16

Packaging

SA SP17-6-6.

120

QC6- All purchased or subcontracted products

0.00

**\*120\***

QC

Memo

0.00

Quality Control

8

DAS  
38  
9-89  
JUN 07 2017

-DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>             Skid-tube <input type="checkbox"/><br/>             Machining <input type="checkbox"/><br/>             Thermoforming <input type="checkbox"/><br/>             Large Fab <input type="checkbox"/> </div> <div>             Cross tube <input type="checkbox"/><br/>             Small Fab <input type="checkbox"/><br/>             Finishing <input type="checkbox"/><br/>             Composite <input type="checkbox"/> </div> <div>             Water Jet <input type="checkbox"/><br/>             Prod. Eng. Coord. <input type="checkbox"/><br/>             Rec/Store/Packaging <input type="checkbox"/><br/>             Supplier <input type="checkbox"/> </div> <div>             Engineering <input type="checkbox"/><br/>             Quality <input type="checkbox"/><br/>             Other <input type="checkbox"/> </div> </div> |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Step #:                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | QTY Effective :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  | MRB (Q51042) Approval                                                                                                  |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Disposition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  | Completed By _____<br><br>Lead hand / Supervisor Approval Verification _____<br><br>QC / QA Coordinator Approval _____ |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |
| Root Cause                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FAULT CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |
| Environment <input type="checkbox"/><br>Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/> | No Re-verification <input type="checkbox"/><br>Operator <input type="checkbox"/><br>Offset/Setup <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Training <input type="checkbox"/><br>Use for Testing <input type="checkbox"/><br>Poor Information <input type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Centre Not Concentric <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/> | Temperature/Cure <input type="checkbox"/><br>Set-up <input type="checkbox"/><br>BOM/Route <input type="checkbox"/><br>Broken/Damage/Defect <input type="checkbox"/><br>Inspection Incomplete/Unqualified <input type="checkbox"/><br>Contamination <input type="checkbox"/><br>Countersink <input type="checkbox"/><br>Cut Too Short <input type="checkbox"/><br>Instructions Incomplete/Unclear <input type="checkbox"/><br>Drill Holes <input type="checkbox"/> | Power Loss/Surge <input type="checkbox"/><br>Folio/Program <input type="checkbox"/><br>Grain <input type="checkbox"/><br>Weld <input type="checkbox"/><br>Wrong Stock Pulled <input type="checkbox"/><br>Out of Sequence <input type="checkbox"/><br>Off-set <input type="checkbox"/><br>Misabeled <input type="checkbox"/><br>Fit/Function <input type="checkbox"/><br>Misaligned/off center <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/> |  |  |                                                                                                                        |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | OTHER : _____                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |                                                                                                                        |  |

**\*160541\***

Page 2

**Accept**

**\*N900040100\***

Setup Start \*NS1\*

Stop \*NS2\*

**Start Date:** 5/1/2017      **Start Qty:** 8.00      **\*g\***

**Cust Item ID:**

**Required Date: 5/30/2017      Req'd Qty: 8.00      \*O\***

**Customer:**

**Reference:**

**Approvals:**      **Process Plan:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Tooling:** \_\_\_\_\_ **Date:** \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

### Operation Description

### Set Up/ Run Hours

**Tool ID****Tool #****Plan  
Code**

Accept  
Qty

Reject  
QtyReject  
Number

**Insp.  
Stamp**

130

Chemical Conversion Coat per QSI005 4.1

0.00

**\*130\***

## Memo

0.77

**HandFinish**

## Hand Finishing

140

### QC3- Inspect Part Finish

0.00

**\*140\***

## Memo

0.08

QC

## Quality Control

Identify as per dwg & Stock Location: St 243 0.00

0.00

**\*150\***

## Memo

0.08

## Packaging

### Packaging

**Work Order ID 160541**

Monday, May 01, 2017 11:52:43 AM

**\*160541\***

Page 3

Item ID: D4007-3

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Item Name: Support

Stop **\*NS2\***

Start Date: 5/1/2017 Start Qty: 8.00

**\*8\***

Cust Item ID:

Required Date: 5/30/2017 Req'd Qty: 8.00

**\*8\***

Customer:

Reference:

Approvals:

Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

160

QC21- Final Inspection - Work Order Release

0.00

**\*160\***

QC

Memo

0.80

Quality Control

DAS  
21  
9-89

JUN 1 2 2017



# Picklist Print

Monday, May 01, 2017 11:52:42 AM

Page 1

Work Order ID: 160541

**\*160541\***

Parent Item: D4007-3

**\*D4007-3\***

Parent Item Name: Support

Start Date: 5/1/2017

Required Date: 5/30/2017

Start Qty: 8.00

Required Qty: 8.00

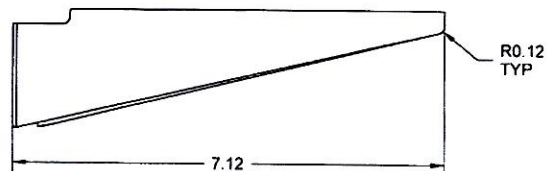
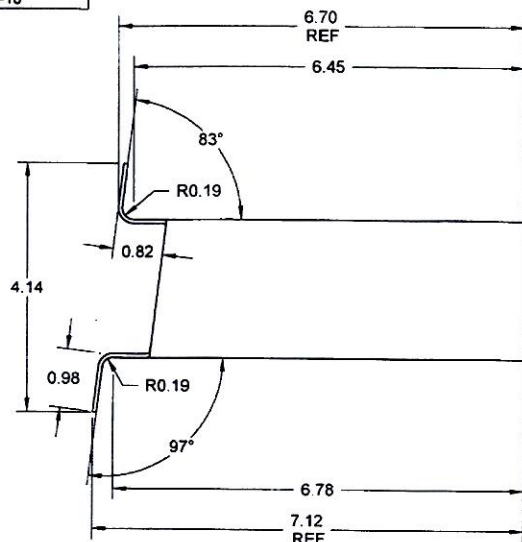
Comments: IPP rev A 09.12.18 new Issue Prelim EC verified: DD IPP Rev:B  
10.05.03 as per ECN10-562 DD verified by:EC

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

|                   |  |           |    |  |  |     |      |        |           |   |  |  |  |
|-------------------|--|-----------|----|--|--|-----|------|--------|-----------|---|--|--|--|
| D4007-3P          |  | Purchased | No |  |  | 110 | Each | 0.0000 | 1         | 8 |  |  |  |
| <b>*D4007-3P*</b> |  |           |    |  |  |     |      |        | <b>**</b> |   |  |  |  |
| Support           |  |           |    |  |  |     |      |        |           |   |  |  |  |

*8x Sp17-6-6.*

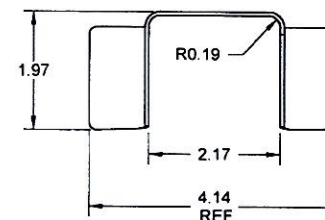
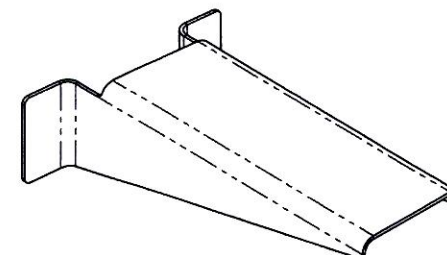
| DART AEROSPACE<br>PART NUMBER | JOHN CAMERON AVIATION<br>PART NUMBER |
|-------------------------------|--------------------------------------|
| D4007-3                       | JCA-M47-2-18                         |



MAY 01 2017

MAY 01 2017  
DAS  
13  
9-89

W10:160541

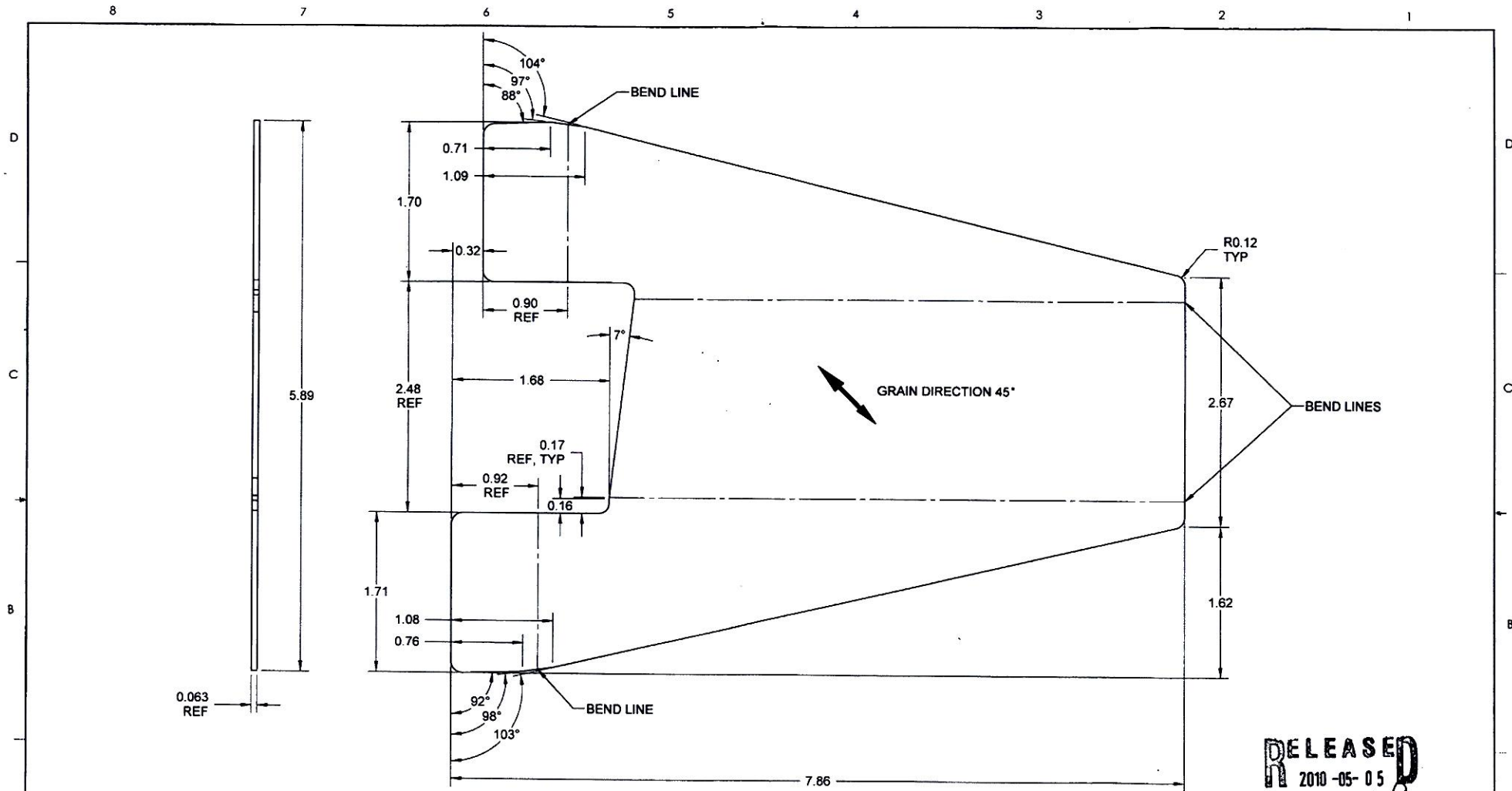


**D4007-3 TOP SUPPORT BRACKET**

**RELEASED**  
2010-05-05  
JMP

- NOTES:**
- 1) MATERIAL: MADE FROM D4007-3F
  - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4007-3" AND B/N USING FINE POINT PERMANENT INK MARKER
  - 7) WEIGHT: 0.19 lbs

|            |          |                                                                                                                                                                                                                                                                                          |              |
|------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     |          | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                                |              |
| DRAWN      |          | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                              |              |
| CHECKED    |          | DRAWING NO. <b>D4007</b>                                                                                                                                                                                                                                                                 | REV. A       |
| MFG. APPR. |          |                                                                                                                                                                                                                                                                                          | SHEET 3 OF 5 |
| APPROVED   |          | TITLE <b>SUPPORT</b>                                                                                                                                                                                                                                                                     | SCALE        |
| DE APPR.   |          |                                                                                                                                                                                                                                                                                          | NTS          |
| DATE       | 10.02.05 | <small>COPYRIGHT © 2010 BY DART AEROSPACE LTD<br/>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small> |              |



**D4007-3F FLAT PATTERN**

**RELEASED**  
2010-05-05

**NOTES:**

- 1) MATERIAL: 2024-T3 ALUMINUM SHEET, 0.063 THICK  
PER QQ-A-250/4 OR AMS-QQ-A-250/4  
OR AMS 4037 OR ASTM B209  
REF DART SPEC M2024T3S.063
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.19 lbs

|            |          |                                                                                                                                                                                                                               |              |
|------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     |          | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                     |              |
| DRAWN      |          | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                   |              |
| CHECKED    |          | DRAWING NO. <b>D4007</b>                                                                                                                                                                                                      | REV. A       |
| MFG. APPR. |          | TITLE <b>SUPPORT</b>                                                                                                                                                                                                          | SHEET 4 OF 5 |
| APPROVED   |          | SCALE                                                                                                                                                                                                                         | NTS          |
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Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36252**

Purchase Order Date 5/9/2017 11:27:22 AM  
PO Print Date 5/9/2017

Page Number 1 of 2

**Order From :**

VC-GFI001

**Ship To :** DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

GFI  
180 AVENUE LABROSSE  
POINTE CLAIRE, QC H9R 1A1  
CA

**Contact Name**

**Vendor Phone** 514 630 4877

**Ship To Contact**

**Ship To Phone**

**Ship Via:** FedEx PI ppd

**Ship Acct:**

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #**

10127-2607

**Terms**

Net 30

**Currency**

CAD

**FOB**

FCA - (Free Carrier)

| Line Nbr                                                                              | Reference Vendor Part Number | Description/ Mfg ID         | Req Date/ Taxable | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------------|-------------------|----|--------------------------|---------------|----------------|
| Line Comments                                                                         |                              | Promise Date                |                   |    |                          |               |                |
| Delivery Comments                                                                     |                              |                             |                   |    |                          |               |                |
| 1                                                                                     | D4007-3P                     | Support                     | 5/31/2017         |    | 8.00                     | \$110.00      | \$880.00       |
|                                                                                       |                              |                             | Yes               |    | Each                     |               |                |
|                                                                                       |                              |                             | 5/31/2017         |    |                          |               |                |
| AS PER DWG D4007 REV. A                                                               |                              |                             |                   |    |                          |               |                |
| B160541                                                                               |                              |                             |                   |    |                          |               |                |
|                                                                                       |                              |                             |                   |    |                          | Line Total:   | \$880.00       |
| 2                                                                                     | 71401-45                     | PROCUREMENT QUALITY CLAUSES | 5/31/2017         |    | 1.00                     | \$0.00        | \$0.00         |
|                                                                                       |                              |                             | No                |    |                          |               |                |
|                                                                                       |                              |                             | 5/31/2017         |    |                          |               |                |
| PROCUREMENT QUALITY CLAUSES                                                           |                              |                             |                   |    |                          |               |                |
| A005 RIGHT OF ENTRY                                                                   |                              |                             |                   |    |                          |               |                |
| A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER, (DOCUMENTATION SENT TO DART AEROSPACE) |                              |                             |                   |    |                          |               |                |
| A012 CHEMICAL AND PHYSICAL TEST REPORTS                                               |                              |                             |                   |    |                          |               |                |
| A016 PERSONNEL QUALIFICATION                                                          |                              |                             |                   |    |                          |               |                |
| A017 RAW MATERIAL IDENTIFICATION (AS APPLICABLE)                                      |                              |                             |                   |    |                          |               |                |
| A026 CERTIFICATION OF MATERIAL CONFORMANCE                                            |                              |                             |                   |    |                          |               |                |
| A041 QUALITY MANAGEMENT SYSTEM                                                        |                              |                             |                   |    |                          |               |                |
| A042 DART NOTIFICATION BY SUPPLIER                                                    |                              |                             |                   |    |                          |               |                |
| A043 RETENTION OF QUALITY DOCUMENT                                                    |                              |                             |                   |    |                          |               |                |

5/17/16

**Note:**

5/9/2017

*SP17-66*





180 AVENUE LABROSSE  
POINTE-CLAIRE, QC, CANADA H9R 1A1  
TEL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Limitée / GFI is a division of Thomas & Betts Limited



# BON DE LIVRAISON / SHIPPING MEMO

| DATE DE LIVRAISON / SHIPPING DATE |         |         | N° DE BON DE LIVRAISON<br>SHIPPING MEMO NO. | PAGE |
|-----------------------------------|---------|---------|---------------------------------------------|------|
| JR - DY                           | MO - MO | AN - YR |                                             |      |
| 02                                | 06      | 17      | 0601290                                     | 1/1  |



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

| CODE DE CLIENT<br>CUSTOMER CODE                                                                                                                                                 |                         | N° DE CONTRAT<br>JOB NO. | VOTRE N° DE COMMANDE<br>YOUR PURCHASE ORDER NO. | EXPÉDIÉ PAR<br>SHIP VIA |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|-------------------------------------------------|-------------------------|
| DART GFI-0299                                                                                                                                                                   |                         | 0333692                  | PO36252                                         |                         |
| QUANTITÉ<br>QUANTITY                                                                                                                                                            | N° DE PIÈCE<br>PART NO. |                          | DESCRIPTION                                     |                         |
| 1                                                                                                                                                                               | D4007-3P                |                          | SUPPORT<br><br>ITEM 1<br>C OF C REQ'D           |                         |
| <p>MFG. JOB# 0326234 - 001 QTY 1pc</p> <p>DUE DATE: 09 June 2017</p> <p></p> <p>2017-6-6</p> |                         |                          |                                                 |                         |

EXPÉDITEUR  
SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION  
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.



180 AVENUE LABROSSE  
POINTE-CLAIRE, QC, CANADA H9R 1A1  
TEL: (514) 630-4877 - FAX: (514) 630-4849

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# BON DE LIVRAISON / SHIPPING MEMO

| DATE DE LIVRAISON / SHIPPING DATE |         |         | N° DE BON DE LIVRAISON / SHIPPING MEMO NO. | PAGE |
|-----------------------------------|---------|---------|--------------------------------------------|------|
| JR - DY                           | MO - MO | AN - YR |                                            |      |
| 02                                | 06      | 17      | 0601289                                    | 1/1  |



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

DART AEROSPACE LTD  
1270 ABERDEEN ST..  
HAWKESBURY, ON  
K6A 1K7

| CODE DE CLIENT<br>CUSTOMER CODE   | N° DE CONTRAT<br>JOB NO. | VOTRE N° DE COMMANDE<br>YOUR PURCHASE ORDER NO.            | EXPÉDIÉ PAR<br>SHIP VIA |  |  |
|-----------------------------------|--------------------------|------------------------------------------------------------|-------------------------|--|--|
| DART GFI-0299                     | 0333692                  | PO36252                                                    |                         |  |  |
| QUANTITÉ<br>QUANTITY              | N° DE PIÈCE<br>PART NO.  | DESCRIPTION                                                |                         |  |  |
| ✓ 1                               | D4007-3P                 | SUPPORT<br><br>ITEM 1<br>C OF C REQ'D<br><br><i>SPT-66</i> |                         |  |  |
| MFG. JOB# 0333692 - 001 QTY 7 pcs |                          |                                                            |                         |  |  |
| DUE DATE: 09 June 2017            |                          |                                                            |                         |  |  |
|                                   |                          |                                                            |                         |  |  |

EXPÉDITEUR  
SHIPPER

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.  
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas&Betts**

180 LABROSSE AVENUE  
POINTE CLAIRE, QC  
H9R 1A1

**DART AEROSPACE LTD**  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7

|                                                       |                                                                         |                                |                 |                 |                |           |
|-------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------|-----------------|-----------------|----------------|-----------|
| CERTIFICATE NO.                                       | <u>10</u>                                                               | OUR JOB NO                     | <u>0333692</u>  | SHIPPING MEMO   | <u>0601290</u> |           |
| ITEM                                                  | QUANTITY                                                                | PURCHASE ORDER                 | PART NUMBER     | REV             | NAME           | DWG ISSUE |
| <u>--</u>                                             | <u>1 PC</u>                                                             | <u>PO36252</u>                 | <u>D4007-3P</u> |                 | <u>SUPPORT</u> | <u>A</u>  |
| MATERIAL                                              |                                                                         | SUPPLIED BY                    |                 | MAT. REL. NO.   |                |           |
| <u>.063 THK AL 2024-T3</u><br><u>(AMS-QQ-A-250/4)</u> |                                                                         | <u>SAMUEL/ KAISER ALUMINUM</u> |                 | <u>172105B9</u> |                |           |
|                                                       | PROCESS                                                                 | PROCESSOR                      | RELEASE NOTE #  |                 |                |           |
| 1                                                     | <u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>                          | <u>GFI</u>                     | <u>N/A</u>      |                 |                |           |
| 2                                                     | <u>REF. GFI MANUFACTURING JOB NUMBER</u><br><u>0326234-001 (1 PC) .</u> |                                |                 |                 |                |           |
| 3                                                     | <u>MATERIAL CERTIFICATION ATTACHED</u>                                  |                                |                 |                 |                |           |
| 4                                                     |                                                                         |                                |                 |                 |                |           |
| 5                                                     |                                                                         |                                |                 |                 |                |           |
| 6                                                     |                                                                         |                                |                 |                 |                |           |
| 7                                                     |                                                                         |                                |                 |                 |                |           |
| 8                                                     |                                                                         |                                |                 |                 |                |           |
| 9                                                     |                                                                         |                                |                 |                 |                |           |

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 02 JUNE 2017

G.F.I. Q.C. REP.





LES METAUX SPECIALISES SAMUEL  
21525 CLARK-GRAHAM  
BAIE D'URFE, QUEBEC, CANADA  
H9X 3T5

(514) 457-3399 TÉLÉC (514) 457-9393

No 004259299



PAGE 1 DE/OF 2

TRANSPORTEUR/CARRIER NAME  
CASTERO R-571041-4

CAMION/TRUCK  
099

NOM DE LA BRANCHE/SALES BRANCH NAME  
SAMUEL & FILS & CIE LTÉE

DATE D'EXP/DATE OF SHIPMENT  
10/12/16

**VENDU À/SOLD TO:**

GFI, DIVISION DE THOMAS & BETTS LTÉE  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

(514) 630-4877

**EXPÉDIÉ À/SHIP TO: FAB: DEST**

GFI INC.  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

CA

(0201009-00001)

N° COMMANDE  
N° ITEM  
007310-01

**DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT**

#Comm du client: 88130  
1 PCS 2024 T3 BARE QQA250/4

Cert/Test: AVAIL  
36 LVR

.0630"x48"x120"  
AMS-QQA-250/4  
C OF C + MILL TESTS REQUIRED.

#Pièce AS0634814424

| Description<br>#Étiq mln | PCS<br># levée | Pd ca  | Qté | #PLT   | #Étiq<br>Etiq.orig | VendeurOrg<br>#Coul |
|--------------------------|----------------|--------|-----|--------|--------------------|---------------------|
|                          | 1              | 40.000 | 36  | 495533 | 2846047            | 017 US              |
|                          |                |        |     |        | 16.33 KG           |                     |
| 1997165                  |                |        |     |        | D082295            | 172105B9            |

Total: 1 40.000 36 16 KG

007310-02

#Comm du client: 88130  
1 PCS 2024 T3 BARE QQA250/4

Cert/Test: AVAIL  
8 LVR

.0630"x48"x24"  
AMS-QQA-250/4  
C OF C + MILL TESTS REQUIRED.

#Pièce AS0634814424

| Description<br>#Étiq mln | Pcs<br># levée | Pd ca | Qté | #PLT   | #Étiq<br>Etiq.orig | VendeurOrg<br>#Coul |
|--------------------------|----------------|-------|-----|--------|--------------------|---------------------|
|                          | 1              | 8.000 | 8   | 495532 | 2846048            | 017 US              |
|                          |                |       |     |        | 3.63 KG            |                     |
| 1997165                  |                |       |     |        | D082295            | 172105B9            |

Total: 1 8.000 8 4 KG

Poids total: 44 LVR  
Poids total: 20 KG  
#Total paquets: 2



CHARGES: PRÉPAYÉ/PREPAID

PRÉPAYÉ PAR

INST. VOITURIER/DRIVER INSTRUCTIONS

EXPÉDITEUR/DISPATCHER

VOITURIER/DRIVER

VALEUR (62.000\$ max à moins d'avis contraire)  
VALUATION (Max \$2,000 unless otherwise stated)  
Valeur déclarée de l'expédition  
DECLARED VALUE OF SHIPMENT

REÇU PAR/RECEIVED BY

1. ORIGINAL - NON NEGOCIABLE (CE CONNAISSEMENT DOIT ÊTRE SIGNÉ PAR L'EXPÉDITEUR ET LE VOITURIER)





LES METAUX SPECIALISES SAMUEL  
21525 CLARK-GRAHAM  
BAIE D'URFE, QUEBEC, CANADA  
H9X 3T5

(514) 457-3399 TÉLÉC (514) 457-9393

No 004259299



PAGE 2 DE/OF 2

TRANSPORTEUR/CARRIER NAME:  
CASTERO R-571041-4

CAMION/TRUCK  
099

NOM DE LA BRANCHE/SALES BRANCH NAME  
SAMUEL & FILS & CIE LTÉE

DATE D'EXP/DATE OF SHIPMENT  
10/12/16

**VENDU À/SOLD TO:**

GFI, DIVISION DE THOMAS & BETTS LTÉE  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

(514) 630-4877

**EXPÉDIÉ À/SHIP TO: FAB: DEST**

GFI INC.  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

CA

(0201009-00001)

N° COMMANDE  
N° ITEM

DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT

**Commentaires connaissance:**

CERTIFICATE OF COMPLIANCE MEETS  
THE MATERIAL DETAILED ABOVE MEETS YOUR ORDER  
REQUIREMENTS AND GRADE STANDARDS AS DESCRIBED  
PLEASE REFER TO MILL TEST REPORT ATTACHED.  
AUTHORIZED BY:

**Heures récept:**

7H30 AM @ 3H30 PM

*A. Rainone* Date 10/12/16  
Anne Rainone  
Administration



CHARGES: PRÉPAYÉ/PREPAID  
PRÉPAYÉ PAR  
EXPÉDITEUR/DISPATCHER

INST. VOITURIER/DRIVER INSTRUCTIONS  
VOITURIER/DRIVER

VALEUR (\$2000s max moins d'avis contraire)  
VALUATION (Max \$ 2,000s unless otherwise stated)  
Valeur déclarée de l'expédition  
DECLARED VALUE OF SHIPMENT  
REÇU PAR/RECEIVED BY

SHIP TO:  
METAUX SPECIALISES SAMUEL QC  
21525 CLARK-GRAHAM  
BAIE D'URFE, PQ, CA H9X 3T5

**KAISER  
ALUMINUM**

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4416362

SOLD TO:  
SAMUEL & FILS & CIE LTEE  
DIVISION OF SAMUEL & SON LTD  
1250 APPLEBY LINE  
BURLINGTON, ON, CA L7L 566

|                               |                          |                           |                                     |               |                                             |                                       |                                      |  |
|-------------------------------|--------------------------|---------------------------|-------------------------------------|---------------|---------------------------------------------|---------------------------------------|--------------------------------------|--|
| CUSTOMER PO NUMBER:<br>C72416 |                          | WORK PACKAGE:             | CUSTOMER PART NUMBER:               |               | SHIP RUN/LOAD:<br>103545/12                 |                                       | GOV'T CONTRACT NUMBER:               |  |
| KAISER ORDER NO:<br>1212833   | LINE ITEM:<br>4          | SHIP DATE:<br>26-APR-2016 | ALLOY:<br>2024                      | CLAD:<br>BARE | TEMPER:<br>T3                               | PRODUCT DESCRIPTION:<br>HT Flat Sheet |                                      |  |
| WEIGHT SHIPPED:<br>3260 LB    | QUANTITY:<br>74 PCS EST. | TRUCK B/L #:<br>2059940   | GAUGE:<br>0.0630 IN<br>( 1.6002 MM) |               | DIAMETER/WIDTH:<br>48.000 IN<br>(1219.2 MM) |                                       | LENGTH:<br>144.000 IN<br>(3657.6 MM) |  |

MHU 1997165: LOT 172105B9: 74 pieces; *Δ082295*

### Certified Specifications

AMS 4037/RevQ  
CMMP 019/RevD

AMS-QQ-A-250/4/RevB  
CMMP 025/RevU

ASTM B 209/Rev14

Test Code: 1504

### Test Results

Lot: 172105B9 Cast 174 Drop 93 Ingot 4 Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T3     | LT / 2 (Min:Max) | 66.7 : 66.9<br>(460 : 461) | 45.1 : 45.6<br>(311 : 314) | 18.2 : 18.3  |

(ASTM E1251)

|             |      |      |     |      |     |      |      |      |      |      |          |
|-------------|------|------|-----|------|-----|------|------|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN   | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.07 | 0.19 | 4.7 | 0.57 | 1.3 | 0.01 | 0.09 | 0.02 | 0.01 | 0.00 | TOT 0.06 |

### ALLOY LIMITS

|          |      |      |     |      |     |      |      |      |      |      |       |      |
|----------|------|------|-----|------|-----|------|------|------|------|------|-------|------|
|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN   | TI   | V    | ZR   | OTHER | MAX  |
| 2024     |      |      |     |      |     |      |      |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 3.8 | 0.30 | 1.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.50 | 0.50 | 4.9 | 0.9  | 1.8 | 0.10 | 0.25 | 0.15 | 0.05 | 0.05 | TOT   | 0.15 |

Aluminum Remainder





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4416362

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO 9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1251 ( $\leq 1$  ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n°1907/2006.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER





# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE  
POINTE CLAIRE, QC  
H9R 1A1

**DART AEROSPACE LTD**  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7

|                                                 |                                                                    |                                |                 |                 |                |           |
|-------------------------------------------------|--------------------------------------------------------------------|--------------------------------|-----------------|-----------------|----------------|-----------|
| CERTIFICATE NO.                                 | <u>11</u>                                                          | OUR JOB NO                     | <u>0333692</u>  | SHIPPING MEMO   | <u>0601289</u> |           |
| ITEM                                            | QUANTITY                                                           | PURCHASE ORDER                 | PART NUMBER     | REV             | NAME           | DWG ISSUE |
| <u>--</u>                                       | <u>7 PCS</u>                                                       | <u>PO36252</u>                 | <u>D4007-3P</u> |                 | <u>SUPPORT</u> | <u>A</u>  |
| MATERIAL                                        |                                                                    | SUPPLIED BY                    |                 | MAT. REL. NO.   |                |           |
| <u>.063 THK AL 2024-T3<br/>(AMS-QQ-A-250/4)</u> |                                                                    | <u>SAMUEL/ KAISER ALUMINUM</u> |                 | <u>172105B9</u> |                |           |
| PROCESS                                         |                                                                    |                                | PROCESSOR       |                 | RELEASE NOTE # |           |
| 1                                               | <u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>                     |                                |                 | <u>GFI</u>      | <u>N/A</u>     |           |
| 2                                               | <u>REF. GFI MANUFACTURING JOB NUMBER<br/>0333692-001 (7 PCS) .</u> |                                |                 |                 |                |           |
| 3                                               | <u>MATERIAL CERTIFICATION ATTACHED</u>                             |                                |                 |                 |                |           |
| 4                                               |                                                                    |                                |                 |                 |                |           |
| 5                                               |                                                                    |                                |                 |                 |                |           |
| 6                                               |                                                                    |                                |                 |                 |                |           |
| 7                                               |                                                                    |                                |                 |                 |                |           |
| 8                                               |                                                                    |                                |                 |                 |                |           |
| 9                                               |                                                                    |                                |                 |                 |                |           |

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 02 JUNE 2017

G.F.I. Q.C. REP.





LES METAUX SPECIALISES SAMUEL  
21525 CLARK-GRAHAM  
BAIE D'URFE, QUEBEC, CANADA  
H9X 3T5

(514) 457-3399 TÉLÉC (514) 457-9393

No 004180699



PAGE 1 DE/OF 1

TRANSPORTEUR/CARRIER NAME  
CASTERO R-571041-4

CAMION/TRUCK  
099

NOM DE LA BRANCHE/SALES BRANCH NAME  
SAMUEL & FILS & CIE LTÉE

DATE D'EXP/DATE OF SHIPMENT  
8/15/16

**VENDU À/SOLD TO:**

GFI, DIVISION DE THOMAS & BETTS LTEE  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

(514) 630-4877

**EXPÉDIÉ À/SHIP TO: FAB: DEST**

GFI INC.  
180 LABROSSE

POINTE-CLAIRE  
QC  
H9R1A1

CA

(0201009-00001)

N° COMMANDE  
N° ITEM  
005700-01

**DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT**

#Comm du client: 87947

Cert/Test: AVAIL

10 PCS FEUILLES ALUM 2024 T3 BARE

219 LVR

.0630"x48"x72"

AMS QQ-A-250/4

AMS 4037, C OF C + MILL TESTS ARE REQUIRED.

#Pièce AS06348X7224

| Description<br>#Étiq mln | PCS<br># levée | Pd ca   | Qté | #PLT   | #Étiq<br>Etiq.orig | VendeurOrg<br>#Coul |
|--------------------------|----------------|---------|-----|--------|--------------------|---------------------|
|                          | 10             | 240.000 | 219 | 372236 | 2629153            | 017 US              |
|                          |                |         |     |        | 99.34 KG           |                     |
| 1997165                  |                |         |     |        | D082295            | 172105B9            |
| Total:                   | 10             | 240.000 | 219 |        | 99                 | KG                  |

Poids total:

219 LVR

Poids total:

99 KG

#Total paquets: 1

**Commentaires connaissance:**

CERTIFICATE OF COMPLIANCE MEETS  
THE MATERIAL DETAILED ABOVE MEETS YOUR ORDER  
REQUIREMENTS AND GRADE STANDARDS AS DESCRIBED  
PLEASE REFER TO MILL TEST REPORT ATTACHED.  
AUTHORIZED BY:

Heures récept:

7H30 AM @ 3H30 PM

*A. Rainone* Date 8/15/16

Anne Rainone  
Administration



CHARGES: PRÉPAYÉ/PREPAID

INST. VOITURIER/DRIVER INSTRUCTIONS

VALER (52.000\$ max moins d'avis contraire)  
VALUATION (MAX \$2,000 unless otherwise stated)  
VALER DECLARÉE DE L'EXPÉDITEUR  
DECLARED VALUE OF SHIPMENT

EXPÉDITEUR/DISPATCHER

VOITURIER/DRIVER

REÇU PAR/RECEIVED BY

## SHIP TO:

METAUX SPECIALISES SAMUEL QC  
21525 CLARK-GRAHAM  
BAIE D'URFE, PQ, CA H9X 3T5

# KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

## SOLD TO:

SAMUEL & FILS & CIE LTEE  
DIVISION OF SAMUEL & SON LTD  
1250 APPLEBY LINE  
BURLINGTON, ON, CA L7L 566

Serial Number

4416362

|                               |                          |                           |                                     |               |                                             |                                       |
|-------------------------------|--------------------------|---------------------------|-------------------------------------|---------------|---------------------------------------------|---------------------------------------|
| CUSTOMER PO NUMBER:<br>C72416 |                          | WORK PACKAGE:             | CUSTOMER PART NUMBER:               |               | SHIP RUN/LOAD:<br>103545/12                 | GOVT CONTRACT NUMBER:                 |
| KAISER ORDER NO:<br>1212833   | LINE ITEM:<br>4          | SHIP DATE:<br>26-APR-2016 | ALLOY:<br>2024                      | CLAD:<br>BARE | TEMPER:<br>T3                               | PRODUCT DESCRIPTION:<br>HT Flat Sheet |
| WEIGHT SHIPPED:<br>3260 LB    | QUANTITY:<br>74 PCS EST. | TRUCK B/L #:<br>2059940   | GAUGE:<br>0.0630 IN<br>( 1.6002 MM) |               | DIAMETER/WIDTH:<br>48.000 IN<br>(1219.2 MM) | LENGTH:<br>144.000 IN<br>(3657.6 MM)  |

MHU 1997165: LOT 172105B9: 74 pieces; *1082295*

### Certified Specifications

AMS 4037/RevQ  
CMMP 019/RevD

AMS-QQ-A-250/4/RevB  
CMMP 025/RevU

ASTM B 209/Rev14

Test Code: 1504

### Test Results

Lot: 172105B9 Cast 174

Drop 93

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T3     | LT / 2 (Min:Max) | 66.7 : 66.9<br>(460 : 461) | 45.1 : 45.6<br>(311 : 314) | 18.2 : 18.3  |

(ASTM E1251)

|             |      |      |     |      |     |      |      |      |      |      |          |
|-------------|------|------|-----|------|-----|------|------|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN   | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.07 | 0.19 | 4.7 | 0.57 | 1.3 | 0.01 | 0.09 | 0.02 | 0.01 | 0.00 | TOT 0.06 |

### ALLOY LIMITS

|          |      |      |     |      |     |      |      |      |      |      |       |      |
|----------|------|------|-----|------|-----|------|------|------|------|------|-------|------|
|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN   | TI   | V    | ZR   | OTHER | MAX  |
| 2024     |      |      |     |      |     |      |      |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 3.8 | 0.30 | 1.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.50 | 0.50 | 4.9 | 0.9  | 1.8 | 0.10 | 0.25 | 0.15 | 0.05 | 0.05 | TOT   | 0.15 |

Aluminum Remainder





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4416362

### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), is ISO 9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

- \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.
- \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- \* has been thermally processed in compliance with AMS 2772, where applicable.
- \* is mercury free, within the limits of detection of ASTM E1251 ( $\leq 1$  ppm).
- \* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- \* is in compliance with and regularly monitors any updates to the European Chemical Agency, ECHA, REACH regulations, (EC) n° 1907/2006.
- \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER







Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID **PO36252**

Purchase Order Date 5/9/2017 11:27:22 AM

PO Print Date 5/9/2017

Page Number 1 of 2

**Order From :**

VC-GFI001

**Ship To :** DART AEROSPACE LTD

GFI  
180 AVENUE LABROSSE  
POINTE CLAIRE, QC H9R 1A1  
CA

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**Contact Name**

**Vendor Phone** 514 630 4877

**Buyer**

Chantal Lavoie

**Customer POID**

**Customer Tax #** 10127-2607

**Ship To Contact**

**Terms** Net 30

**Ship To Phone**

**Currency**

CAD

**Ship Via:** FedEx P1 ppd

**FOB**

FCA - (Free Carrier)

**Ship Acct:**

| Line Nbr | Reference<br>Vendor Part Number<br>Line Comments<br>Delivery Comments                                                                                                                                                                                                                                                                                                                                                                                            | Description/<br>Mfg ID         | Req Date/<br>Taxable<br>Promise Date                        | CD | Req Qty/<br>Unit of<br>Measure | PO Unit Price      | Extended<br>Price |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------|----|--------------------------------|--------------------|-------------------|
| 1        | D4007-3P<br><br>AS PER DWG D4007 REV. A<br>B160541                                                                                                                                                                                                                                                                                                                                                                                                               | Support                        | <del>XXXXXX</del><br>Yes<br><del>XXXXXX</del><br>06/09/2017 |    | 8.00<br>Each                   | \$110.00           | \$880.00          |
|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                |                                                             |    |                                | <b>Line Total:</b> | <b>\$880.00</b>   |
| 2        | 71401-45<br><br>PROCUREMENT QUALITY CLAUSES<br><br>A005 RIGHT OF ENTRY<br>A008 FIRST ARTICLE INSPECTION (FAI) BY SELLER,<br>(DOCUMENTATION SENT TO DART AEROSPACE)<br>A012 CHEMICAL AND PHYSICAL TEST REPORTS<br>A016 PERSONNEL QUALIFICATION<br>A017 RAW MATERIAL IDENTIFICATION (AS<br>APPLICABLE)<br>A026 CERTIFICATION OF MATERIAL CONFORMANCE<br>A041 QUALITY MANAGEMENT SYSTEM<br>A042 DART NOTIFICATION BY SUPPLIER<br>A043 RETENTION OF QUALITY DOCUMENT | PROCUREMENT<br>QUALITY CLAUSES | 5/31/2017<br><br>No<br>5/31/2017                            |    | 1.00                           | \$0.00             | \$0.00            |

**APPROVED**

By Pedro at 9:42 am, May 10, 2017

Note:

5/9/2017